

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
 Organization
 International Bureau



(43) International Publication Date
 19 February 2004 (19.02.2004)

PCT

(10) International Publication Number
WO 2004/015959 A2

- (51) International Patent Classification⁷: **H04M**
- (21) International Application Number:
 PCT/NZ2003/000176
- (22) International Filing Date: 8 August 2003 (08.08.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
 520650 8 August 2002 (08.08.2002) NZ
- (71) Applicant (for all designated States except US): **TAIT ELECTRONICS LIMITED** [NZ/NZ]; 558 Wairakei Road, Burnside, Christchurch (NZ).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **BUSCH, Adrian, David** [NZ/NZ]; 40 Hills Road, Christchurch (NZ). **CHURTON, Paul, Anthony** [NZ/NZ]; 64 Colman Avenue, Sockburn, Christchurch (NZ). **KUO, Shyh-hao**

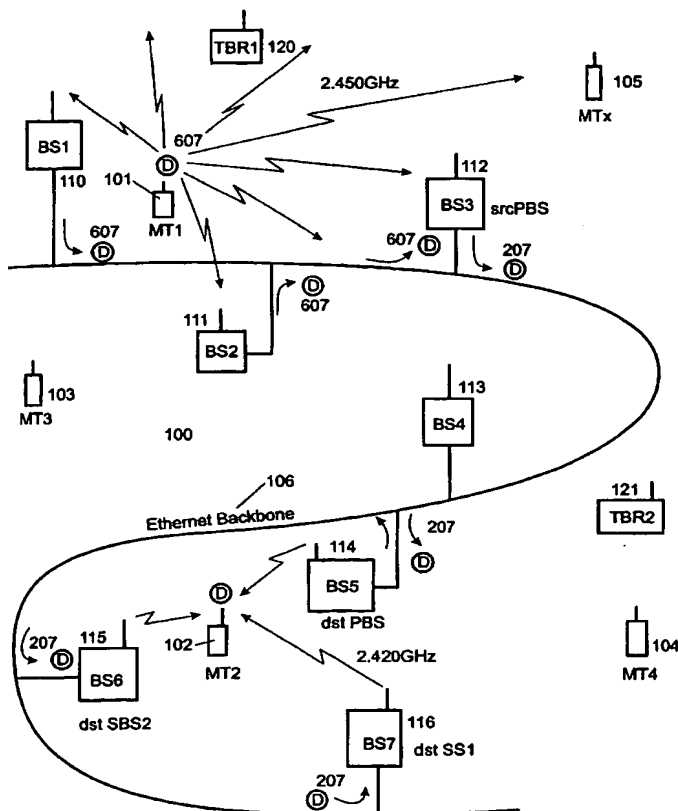
[NZ/NZ]; 35 Garreg Road, Fendalton, Christchurch (NZ). **LENDNAL, Stefan, John** [NZ/NZ]; 99 Stanbury Street, Spreydon, Christchurch (NZ). **MEHROTRA, Kishore** [IN/NZ]; 1/7 Brake Street, Upper Riccarton, Christchurch (NZ). **McCONNELL, Douglas, Andrew** [NZ/NZ]; 111 Gardiners Road, Harewood, Christchurch (NZ). **McLOUGHLIN, Ian, Vince** [GB/NZ]; 27 Springbank Street, Bryndwr, Christchurch (NZ). **POW, Iain, Murdoch** [NZ/NZ]; 22 Aintree Street, Bishopdale, Christchurch (NZ). **SCOTT, Tomas, Gregory** [NZ/NZ]; 4 Kingston Place, Harewood, Christchurch (NZ). **SPALDING, David, Ian** [AU/NZ]; 59 Woodside Common, Westmorland, Christchurch (NZ).

(74) Agents: **WEST-WALKER, Gregory, J. et al.**; A J Park, 6th Floor Huddart Parker Building, Post Office Square, PO Box 949, 6015 Wellington (NZ).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,

[Continued on next page]

(54) Title: IMPROVEMENTS RELATING TO RADIO COMMUNICATION SYSTEMS



(57) Abstract: A communications system including a plurality of base station transceivers linked by some means over which the base station transceivers communicate, a plurality of mobile transceivers adapted to communicate via the base station transceivers using macrodiversity, and wherein the mobile transceivers are further adapted to control allocation of system resources to enable communication.



CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.